Title: ELECTRONIC DOCUMENT
INTERCHANGE DOCUMENT
OBJECT MODEL
Inventor(s): Timothy E. BENNETT et al.
Docket No. 088305-0141

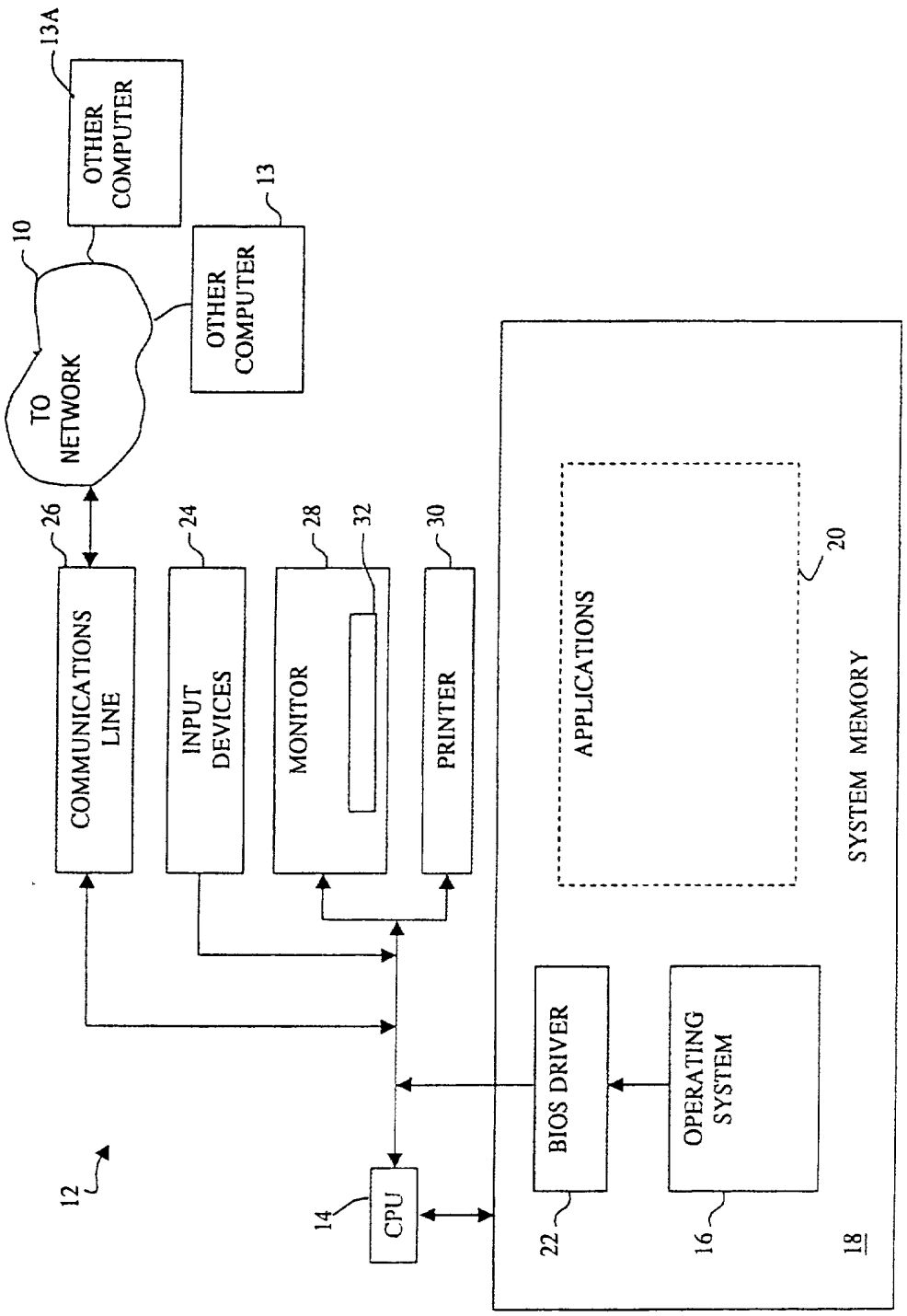

FIGURE 1

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FIGURE 2

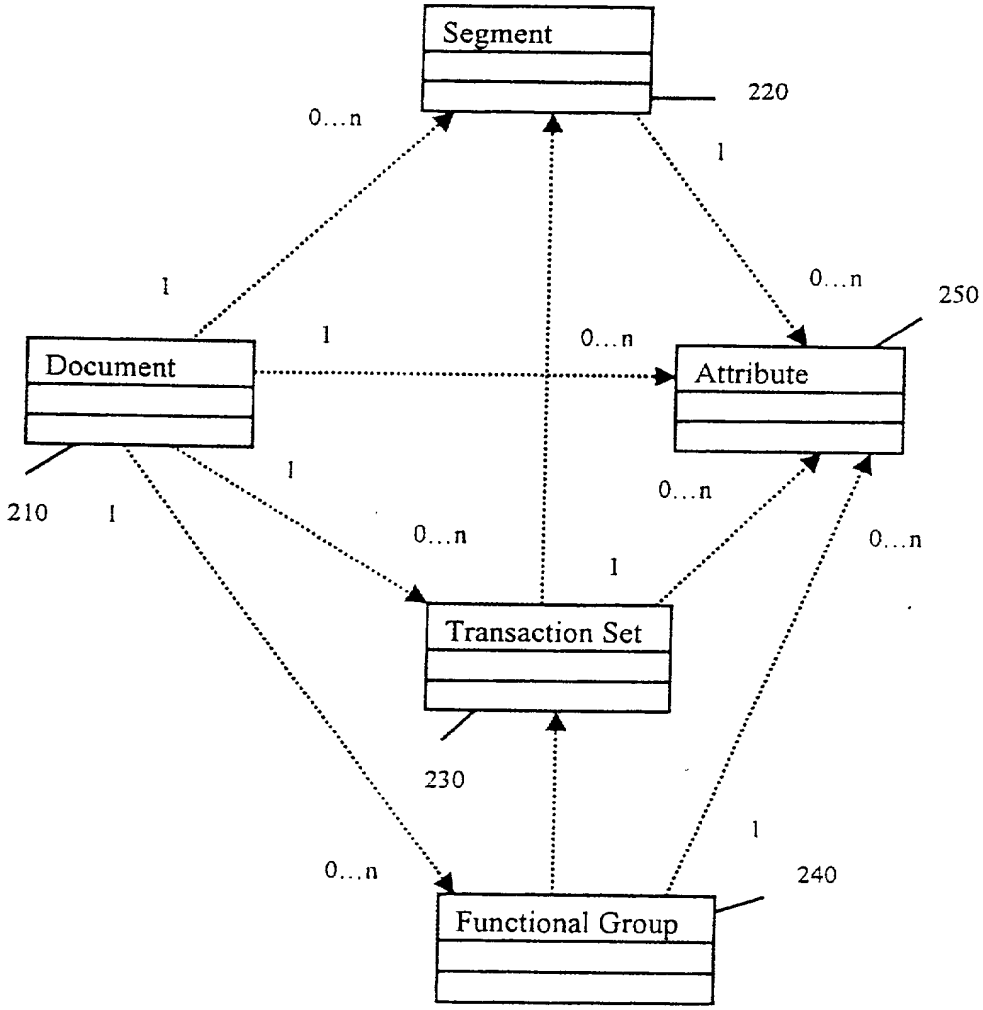

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FIGURE 3

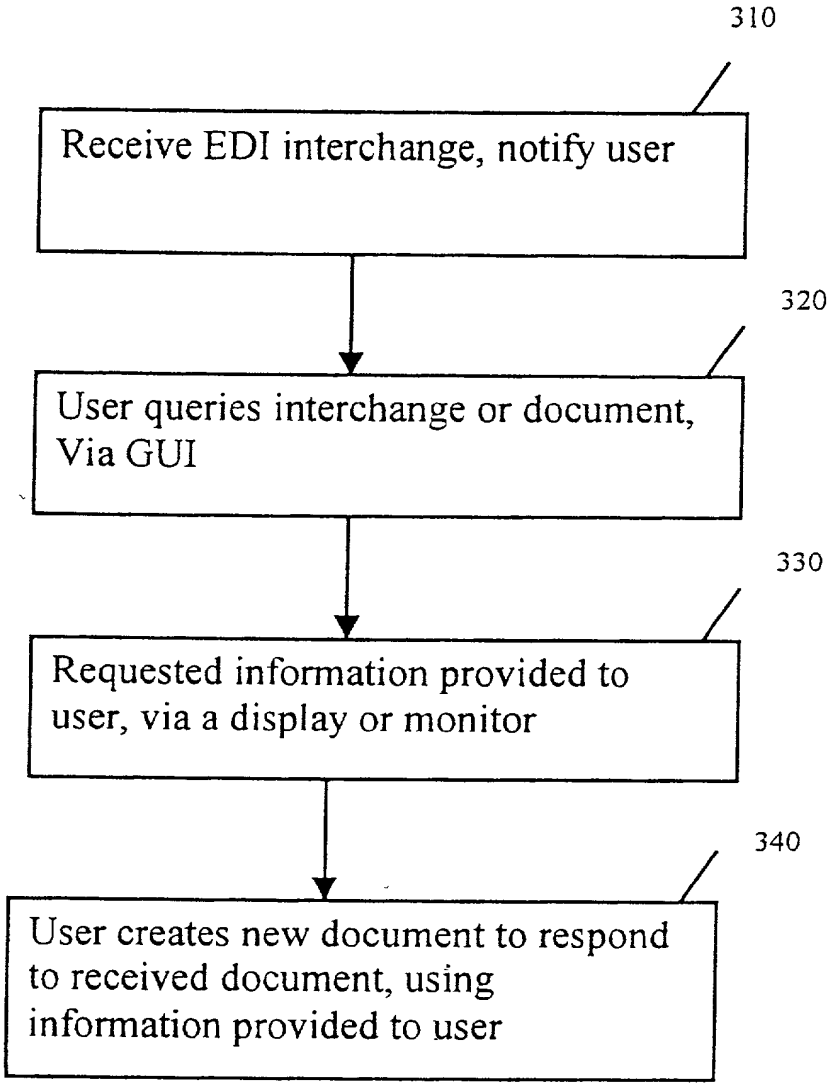
310
Receive EDI interchange, notify user
320
User queries interchange or document, Via GUI
330
Requested information provided to user, via a display or monitor
340
User creates new document to respond to received document, using information provided to user

FIGURE 4

```
STX=ANA:1+6000099332211 XYZ COMPANY+++000807 111846+4+PASSWORD+INVFIL+B'
MHD=1+INVFIL 6'
TYP=0700+INVOICES'
SDT=6000000001011+GXS+The Widgets, Inc..417 Bay Blvd  San Francisco, CA .89113+569 9469'
CDT=6000000001011+CUSTOMER, Inc.+John Doe 7110 West Main St..Carthage, TN..37030'
FIL=4+1+000807'
FDT=000807+000807'
MTR=7'
MHD=2+INVOIC '
CLO=00078+The Widgets, Inc.+CARTHAGE'
IRF=13+000504+000504'ODD=1+13:13 000504 000504+ 000504'
ILD=1+1+ 8410764062401+++1+5+9.99+229000+S+17500+++Worker Jeans-Twill+++9 99'
ILD=1+2+ 3449861077047+++1+4+24.99+232000+S+17500+++Worker Cords +++24.99'
ILD=1+3+ 3449861137062+++1+2+99 99+177600+S+17500+++Leather Jean Jacket +++99.99'
ILD=1+4+ 3449861102930+++1+4+14.99+248000+S+17500+++Clean Cut Khakis +++14.99'
ILD=1+5+ 8411814800028+++1+7+6.99+432600+S+17500+++Cargo Shorts +++6.99'
ILD=1+6+ 8411814800011+++1+6+6.99+314400+S+17500+++Pleated Walking Shorts +++6.99'
ILD=1+7+ 5411328042005+++1+10+6 99+385000+S+17500+++Flat Front Shorts +++6.99'
ILD=1+8+ 5411328042019+++1+8+24 99+801600+S+17500+++Stretch Shirt+++24.99'
ILD=1+9+ 5411328042029+++1+10+16.99+550000+S+17500+++Patterned Stretch Shirt+++16 99'
ILD=1+10+:5411328042036+++1+11+19 99+312400+S+17500+++Knit Button-Down Shirt+++19 99'
ILD=1+11+.5000144788777+++1+1+16 99+55400+S+17500+++Pique Polo Shirt +++16 99'
ILD=1+12+ 5410916085278+++1+2+9 99+82200+S+17500+++Short-Sleeved Polo Sweater+++9.99'
STL=1++S+17500+12+38202+0+0+0+0+38202+0+38202+6685+44887'
TLR=12+38202+0+0+0+0+38202+0+38202+6685+44887+44887'
MTR=19'
MHD=3+INVOIC.'
CLO=5000192196463+ZYX COMPANY LTD+CHARLSTON'
IRF=14+000711+000711'
ODD=1+14:14 000711:000711+ 000711'
ILD=1+1+ 5411328042036+++1+6+28400+170400+S+17500+++PEPPERONI 200g+++28400'
ILD=1+2+ 5411328042029+++1+2+55000+110000+S+17500+++PEPPER SALAMI 250g+++55000'
ILD=1+3+ 8411814800011+++1+2+52400+104800+S+17500+++ARGAL CHORIZO PAMPLONA xUNIT+++52400'
STL=1++S+17500+3+3852+0+0+0+0+3852+0+3852+674+4526'
TLR=3+3852+0+0+0+0+3852+0+3852+674+4526+4526'
MTR=10'
MHD=4+INVOIC '
CLO=5000192196463+SOMERFIELD STORES LTD+PARK FARM SOUTH'
IRF=15+000711+000711'
ODD=1+15 15.000711.000711+ 000711'
ILD=1+1+ 3449861077047+++1+1+58000+58000+S+17500+++AOSTE SAUCISSON SEC 200g+++58000'
ILD=1+2+ 3449861077047+++1+1+58000+58000+S+17500+++AOSTE SAUCISSON SEC 200g+++58000'
STL=1+ +S+17500+2+1160+0+0+0+0+1160+0+1160+203+1363'
TLR=2+1160+0+0+0+0+1160+0+1160+203+1363+1363'
MTR=9'
MHD=5+VATTLR 6'
VRS=1+S+17500+43214+43214+7562+50776+50776'
MTR=3'
MHD=6+INVTLR:5'
TOT=43214+43214+7562+50776+50776+3'
MTR=3'
MHD=7+RSGRSG 1'
RSG=4+PASSWORD'
MTR=3'
END=7'
```

FIGURE 5A

ILD=1+1+ 8410764062401+++1+5+9 99+229000+S+17500+++Worker Jeans-Twill+++9 99'
ILD=1+2+.3449861077047+++1+4+24.99+232000+S+17500+++Worker Cords +++24.99'
ILD=1+3+ 3449861137062+++1+2+99.99+177600+S+17500+++Leather Jean Jacket +++99.99'
ILD=1+4+ 3449861102930+++1+4+14.99+248000+S+17500+++Clean Cut Khakis +++14.99'
ILD=1+5+ 8411814800028+++1+7+6 99+432600+S+17500+++Cargo Shorts +++6 99'
ILD=1+6+ 8411814800011+++1+6+6.99+314400+S+17500+++Pleated Walking Shorts +++6 99'
ILD=1+7+ 5411328042005+++1+10+6.99+385000+S+17500+++Flat Front Shorts +++6.99'
ILD=1+8+.5411328042019+++1+8+24 99+801600+S+17500+++Stretch Shirt+++24 99'
ILD=1+9+ 5411328042029+++1+10+16.99+550000+S+17500+++Patterned Stretch Shirt+++16 99'
ILD=1+10+ 5411328042036+++1+11+19.99+312400+S+17500+++Knit Button-Down Shirt+++19 99'
ILD=1+11+ 5000144788777+++1+1+16 99+55400+S+17500+++Pique Polo Shirt +++16 99'
ILD=1+12+ 5410916085278+++1+2+9 99+82200+S+17500+++Short-Sleeved Polo Sweater+++9.99'

FIGURE 5B

SDT=6000000001011+XYZ+The Widgets, Inc :417 Bay Blvd :San Francisco, CA :89113+569 9469'

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FIGURE 6

```
Dim invoice As Object

Sub LoadInvoice()

   Set invoice = CreateObject("Invoice9.Bean")
   invoice.Open ("C:\\Excel\\invoic9_3.mfd")

   Sheet1.Cells.Range("D2", "F5").ClearContents
   Sheet1.Cells.Range("D2") = invoice.SupplierAddress1
   Sheet1.Cells.Range("D3") = invoice.SupplierAddress2
   Sheet1.Cells.Range("D4") = invoice.SupplierAddress3
   Sheet1.Cells.Range("D5") = invoice.SupplierAddress4

   Sheet1.Cells.Range("C9", "G12").ClearContents
   Sheet1.Cells.Range("C9") = invoice.CustomerAddress1
   Sheet1.Cells.Range("C10") = invoice.CustomerAddress2
   Sheet1.Cells.Range("C11") = invoice.CustomerAddress3
   Sheet1.Cells.Range("C12") = invoice.CustomerAddress4

   Sheet1.Cells.Range("J2").ClearContents
   Sheet1.Cells.Range("J2") = invoice.InvoiceNumber
   Sheet1.Cells.Range("J9").ClearContents
   Sheet1.Cells.Range("J9") = "=Date(" + Left(invoice.InvoiceDate, 2) + "," + Mid(invoice.InvoiceDate, 3, 2) + "," +
Right(invoice.InvoiceDate, 2) + ")"

   Dim i As Integer
   Dim j As Integer
   Dim celladdr As String

   j = 0
   i = 15

   Sheet1.Cells.Range("B15", "I31").ClearContents
   invoice.SetCurrentLineItem (j)
   Do While invoice.hasMoreItems() = True
      celladdr = "B" + LTrim(Str(i))
      Sheet1.Cells.Range(celladdr) = invoice.Quantity
      celladdr = "C" + LTrim(Str(i))
      Sheet1.Cells.Range(celladdr) = invoice.Description
      celladdr = "I" + LTrim(Str(i))
      Sheet1.Cells.Range(celladdr) = invoice.Price
      j = j + 1
      invoice.SetCurrentLineItem (j)
      i = i + 1
   Loop

End Sub

Sub SaveInvoice()

   invoice.SupplierAddress1 = Sheet1.Cells.Range("D2")
   invoice.SupplierAddress2 = Sheet1.Cells.Range("D3")
   invoice.SupplierAddress3 = Sheet1.Cells.Range("D4")
   invoice.SupplierAddress4 = Sheet1.Cells.Range("D5")

   invoice.CustomerAddress1 = Sheet1.Cells.Range("C9")
   invoice.CustomerAddress2 = Sheet1.Cells.Range("C10")
   invoice.CustomerAddress3 = Sheet1.Cells.Range("C11")
   invoice.CustomerAddress4 = Sheet1.Cells.Range("C12")

   invoice.Save ("C:\\Excel\\invoic9_3.mfd")

End Sub
```

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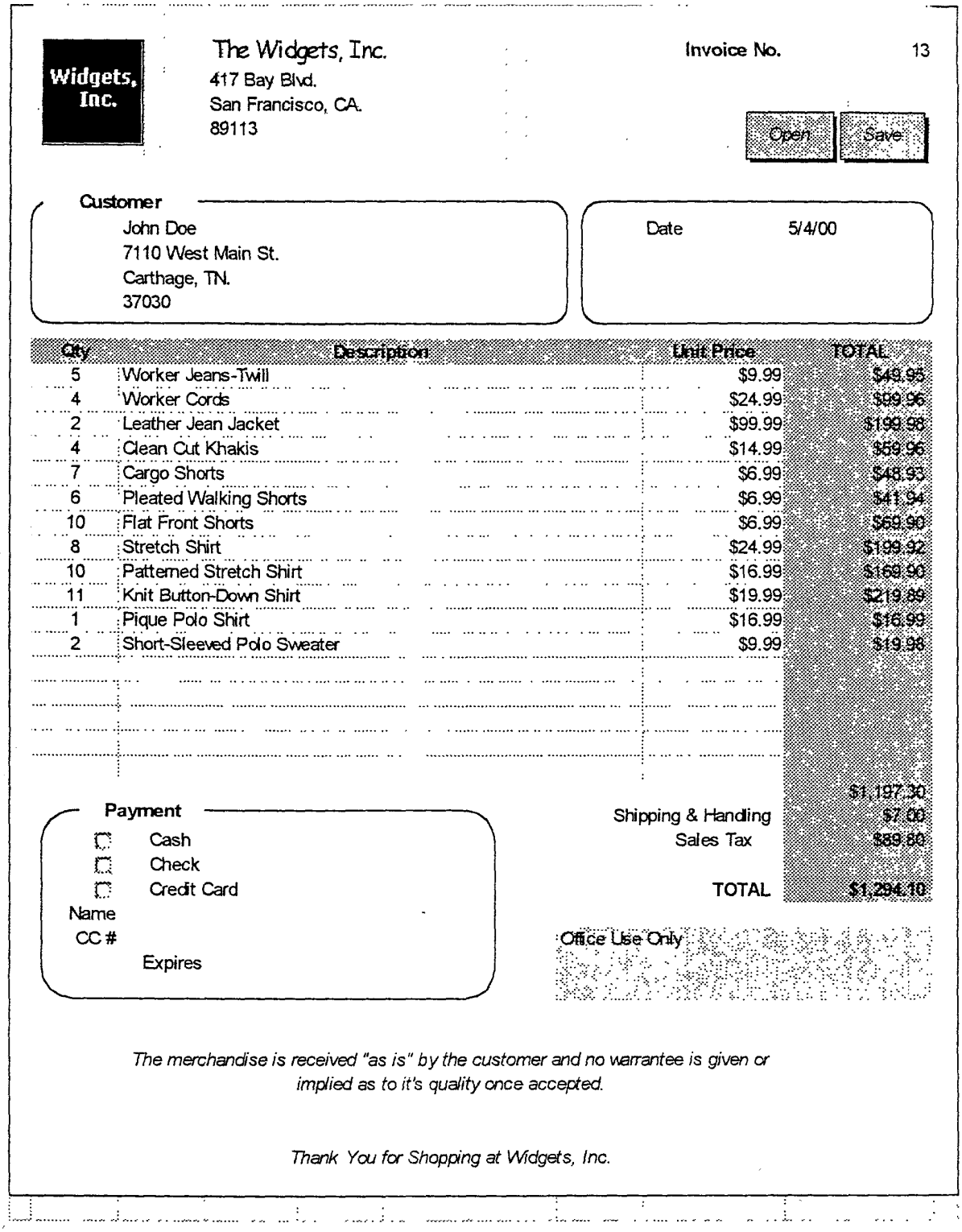

FIGURE 7

20010019634
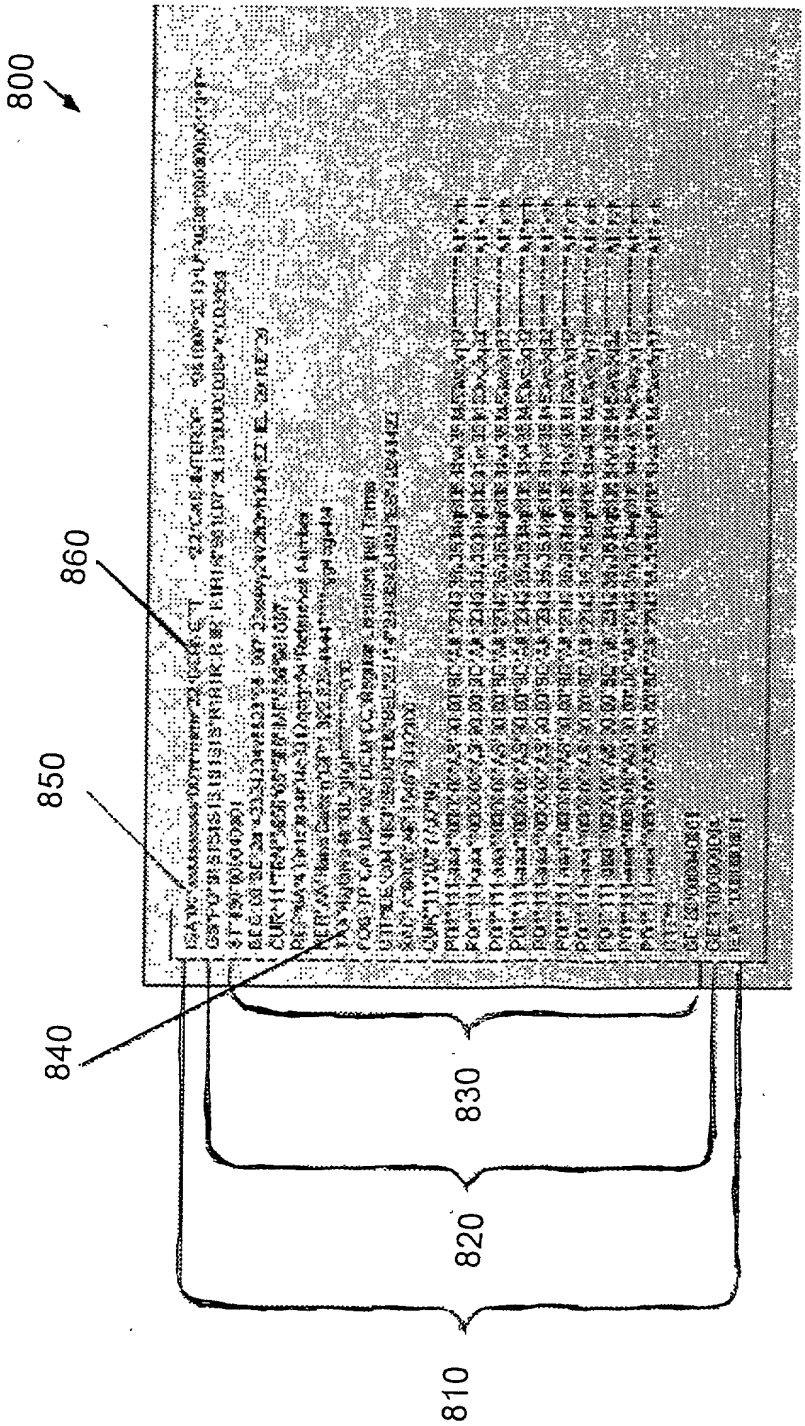
Figure 8